

Enter NEWS followed by the item number or name to see news on that specific topic.

\* \* \* \* \* STN Columbus \* \* \* \* \*

=> e inosone/cn

E13	1	INOSITOPHOSPHORIC ACID/CN
E14	1	INOSITOSAL/CN
E15	0 -->	INOSONE/CN
E16	1	INOSOSE/CN
E17	1	INOSOSE 2,3-DEHYDRATASE/CN
E18	1	INOSOSE AMINOTRANSFERASE/CN
E19	1	INOSOSE REDUCTASE (NAD(P)H)/CN
E20	1	INOSOSE, (2,4-DINITROPHENYL)HYDRAZONE/CN
E21	1	INOSOSE, 2,3-DEOXY-1-O-METHYL-/CN
E22	1	INOSOSE, 2,3:4,5-DIANHYDRO-6-C-(3-METHOXY-3-OXO-2-((1-OXO-2,8-DECADIENYL)AMINO)PROPYL)-/CN
E23	1	INOSOSE, 5-O-METHYL-/CN
E24	1	INOSOSE, DIETHYL DITHIOACETAL/CN

=> e 1-epi-2-inosose/cn

E25	1	L-EPHENAMINE PENICILLIN G/CN
E26	1	L-EPHOS/CN
E27	0 -->	L-EPI-2-INOSOSE/CN
E28	1	L-EPIASARININ/CN
E29	1	L-EPICATECHIN/CN
E30	1	L-EPICATECHIN GALLATE/CN
E31	1	L-EPICATECHOL/CN
E32	1	L-EPIGALLOCATECHIN/CN
E33	1	L-EPIGALLOCATECHIN GALLATE/CN
E34	1	L-EPIGALLOCATECHOL/CN
E35	1	L-EPINEPHRINE/CN
E36	1	L-EPINEPHRINE BITARTRATE/CN

=> e inosose/cn

E37	1	INOSITOPHOSPHORIC ACID/CN
E38	1	INOSITOSAL/CN
E39	1 -->	INOSOSE/CN
E40	1	INOSOSE 2,3-DEHYDRATASE/CN
E41	1	INOSOSE AMINOTRANSFERASE/CN
E42	1	INOSOSE REDUCTASE (NAD(P)H)/CN
E43	1	INOSOSE, (2,4-DINITROPHENYL)HYDRAZONE/CN
E44	1	INOSOSE, 2,3-DEOXY-1-O-METHYL-/CN
E45	1	INOSOSE, 2,3:4,5-DIANHYDRO-6-C-(3-METHOXY-3-OXO-2-((1-OXO-2,8-DECADIENYL)AMINO)PROPYL)-/CN
E46	1	INOSOSE, 5-O-METHYL-/CN
E47	1	INOSOSE, DIETHYL DITHIOACETAL/CN
E48	1	INOSOSE, DIHEPTYL DITHIOACETAL/CN

=> s e39

L1	1	INOSOSE/CN
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=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 13124-19-1 REGISTRY

CN **Inosose** (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cyclohexanone, 2,3,4,5,6-pentahydroxy-

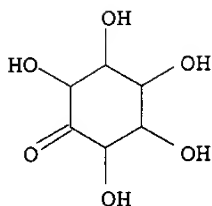
CN Pentahydroxycyclohexanone

FS 3D CONCORD

MF C6 H10 O6

LC STN Files: AGRICOLA, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CHEMINFORMRX, USPATFULL

(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

21 REFERENCES IN FILE CA (1957 TO DATE)  
 21 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
 23 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e myo-inositol/cn

E49 1 MYO-D-INOSITOL PENTAKIS(DIHYDROGEN PHOSPHATE)/CN  
 E50 1 MYO-INOSAMINE-2/CN  
 E51 1 --> MYO-INOSITOL/CN  
 E52 1 MYO-INOSITOL .BETA.-GLUCOSIDE/CN  
 E53 1 MYO-INOSITOL 1,2,3,4,5-PENTAKISPHOSPHATE/CN  
 E54 1 MYO-INOSITOL 1,2,3,4,5-PENTAPHOSPHATE/CN  
 E55 1 MYO-INOSITOL 1,2,3,4,6-PENTAKISPHOSPHATE/CN  
 E56 1 MYO-INOSITOL 1,2,3,5,6-PENTAKISPHOSPHATE/CN  
 E57 1 MYO-INOSITOL 1,2,4,5,6-PENTAKISPHOSPHATE/CN  
 E58 1 MYO-INOSITOL 1,2,4,5,6-PENTAPHOSPHATE/CN  
 E59 1 MYO-INOSITOL 1,2-CYCLIC PHOSPHATE/CN  
 E60 1 MYO-INOSITOL 1,3,4,5,6-PENTAKIS (PHOSPHATE) /CN

=> s e51

L2 1 MYO-INOSITOL/CN

=> d

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 87-89-8 REGISTRY

CN **myo-Inositol (9CI)** (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Inositol, myo- (8CI)

OTHER NAMES:

CN Bios I

CN cis-1,2,3,5-trans-4,6-Cyclohexanehexol

CN Cyclohexanehexol

CN Cyclohexitol

CN Dambose

CN i-Inositol

CN Inosital

CN Inosite

CN Inositene

CN Inositina

CN Inositol

CN iso-Inositol

CN Iso-inositol

CN Meat sugar

CN meso-Inositol

CN Mesoinosit

CN Mesoinosite

CN Mesoinositol

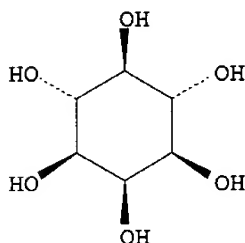
CN Mesol

CN Mesovit

CN MI

CN Mouse antiallopecia factor  
 CN Myoinosite  
 CN Myoinositol  
 CN Nucite  
 CN Phaseomannite  
 CN Phaseomannitol  
 CN Rat antispectacled eye factor  
 CN Scyllite  
 FS STEREOSEARCH  
 DR 53319-35-0  
 MF C6 H12 O6  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS,  
 BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CEN,  
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, DDFU, DETHERM\*, DIOGENES,  
 DIPPR\*, DRUGU, EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,  
 MRCK\*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS\*, SPECINFO,  
 TOXCENTER, TULSA, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6448 REFERENCES IN FILE CA (1957 TO DATE)  
 492 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 6448 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
 9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e epi-inositol/cn

E61 1 EPI-ILMAQUINONE/CN  
 E62 1 EPI-INISITOL, 3-C-((ACETYLOXY)METHYL)-1,2-ANHYDRO-4-DEOXY-,  
 5,6-DIACETATE/CN  
 E63 1 --> EPI-INOSITOL/CN  
 E64 1 EPI-INOSITOL, 1,2,3,4,5,6-HEXA-O-METHYL-/CN  
 E65 1 EPI-INOSITOL, 1,2,3,4,5,6-HEXAKIS-O-(PHENYLMETHYL)-/CN  
 E66 1 EPI-INOSITOL, 1,2,3,4-TETRADEOXY-4-iodo-1,3-BIS(((PHENYLMETH  
 OXY)CARBONYL)AMINO)-, 5,6-DIACETATE/CN  
 E67 1 EPI-INOSITOL, 1,2,3,5,6-PENTAACETATE 4-(4-(ACETYLOXY)BENZOAT  
 E)/CN  
 E68 1 EPI-INOSITOL, 1,2,3,5,6-PENTAACETATE 4-(4-HYDROXYBENZOATE)/C  
 N  
 E69 1 EPI-INOSITOL, 1,2,3,5,6-PENTAACETATE 4-(5-NITRO-2-FURANCARBO  
 XYLATE)/CN  
 E70 1 EPI-INOSITOL, 1,2,3,6-TETRABENZOATE/CN  
 E71 1 EPI-INOSITOL, 1,2,3-TRIS(DIHYDROGEN PHOSPHATE)/CN  
 E72 1 EPI-INOSITOL, 1,2,4,5,6-PENTAKIS-O-(TRIMETHYLSILYL)-, BIS(TR  
 IMETHYLSILYL) PHOSPHATE/CN

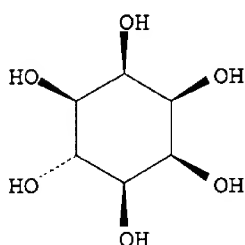
=> s e63

L3 1 EPI-INOSITOL/CN

=> d

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 488-58-4 REGISTRY  
CN **epi-Inositol (9CI)** (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Inositol, epi- (8CI)  
FS STEREOSEARCH  
MF C6 H12 O6  
CI COM  
LC STN Files: AGRICOLA, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAPLUS,  
CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, GMELIN\*, IPA, SPECINFO,  
TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

101 REFERENCES IN FILE CA (1957 TO DATE)  
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
101 REFERENCES IN FILE CAPLUS (1957 TO DATE)

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	20.10	20.31

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FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: May 30, 2003 (20030530/UP).

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	20.37

FILE 'CAPLUS' ENTERED AT 14:17:11 ON 02 JUN 2003  
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FILE COVERS 1907 - 2 Jun 2003 VOL 138 ISS 23  
FILE LAST UPDATED: 1 Jun 2003 (20030601/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13/bpn

101 L3  
85960 BPN/RL  
L4 0 L3/BPN  
(L3 (L) BPN/RL)

=> s 13/prep

101 L3  
3009116 PREP/RL  
L5 10 L3/PREP  
(L3 (L) PREP/RL)

=> d ab bib 15

L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB The various inositol polyphosphates have been found to trigger many important biol. processes. Although the knowledge of this phosphoinositide signaling system has been discovered in the past 10 yr., many factors remain unclear. For this reason, there is an increased demand for supplies of D-myo-inositol and particularly of novel analogs to investigate these biol. mechanisms in more detail. Herein, we report the efficient syntheses of all diastereoisomers of inositol starting with 6-O-acetyl-5-enopyranosides. Conversion of 6-O-acetyl-5-enopyranosides into the corresponding substituted cyclohexanones (Ferrier-II rearrangement) was found to proceed efficiently with a catalytic amt. of palladium dichloride. Stereoselective redn. of .beta.-hydroxy ketones obtained provided the precursors to all inositol diastereoisomers in good to excellent yields and with high stereoselectivities. Good accessibility of these enantiomerically pure inositol diastereoisomers results in the efficient syntheses of D-myo-inositol 1,4,5-trisphosphate and D-myo-inositol 1,3,4,5-tetrakisphosphate.

AN 2001:195872 CAPLUS

DN 135:19834

TI Novel Synthesis of Enantiomerically Pure Natural Inositols and Their Diastereoisomers

AU Takahashi, Hideyo; Kittaka, Hisae; Ikegami, Shiro

CS School of Pharmaceutical Sciences, Teikyo University, Sagamiko Kanagawa, 199-0195, Japan

SO Journal of Organic Chemistry (2001), 66(8), 2705-2716

CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

OS CASREACT 135:19834

RE.CNT 100 THERE ARE 100 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 2-10 ab bib

L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB L-Epi-2-inosose and epi-inositol, which are useful as various drugs or synthesis intermediates, can be efficiently produced from less expensive myo-inositol. Myo-inositol is treated with a gram-neg. bacterium. e.g. Xanthomonas sp., capable of converting myo-inositol into L-epi-2-inosose to thereby convert the myo-inositol into L-epi-2-inosose. The L-epi-2-inosose thus obtained is further reacted in an aq. reaction medium with a reducing agent comprising an alkali metal boron hydride or another alkali metal hydride to form epi-inositol and myo-inositol. Next, the epi-inositol is sepd. and isolated from the redn. reaction mixt. comprising epi-inositol and myo-inositol to give epi-inositol.

AN 2000:881342 CAPLUS

DN 134:42384

TI Novel process for producing L-epi-2-inosose by microbial oxidation of myo-inositol and novel process for producing epi-inositol

IN Takahashi, Atsushi; Kanbe, Kenji; Mori, Tetsuya; Kita, Yuichi; Tamamura, Tsuyoshi; Takeuchi, Tomio

PA Hokko Chemical Industry Co., Ltd., Japan; Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai

SO PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000075355	A1	20001214	WO 2000-JP3687	20000607
	W: CA, CN, IL, IN, JP, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1197562	A1	20020417	EP 2000-937174	20000607
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	JP 1999-159861	A	19990607		
	JP 1999-340523	A	19991130		
	JP 2000-151709	A	20000523		
	WO 2000-JP3687	W	20000607		

OS CASREACT 134:42384

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB The inosose deriv. I (Bn = PhCH<sub>2</sub>) was obtained with high stereoselectivity by intramol. aldol condensation of the aldohexos-5-ulose II, and it was selectively reduced and debenzylated to give epi-inositol in high yield. The stereochem. and the preferred conformations of the compds. were detd. through 1D- and 2D-NMR expts.

AN 2000:324203 CAPLUS

DN 133:105232

TI Rare and complex saccharides from D-galactose and other milk-derived carbohydrates. Part 12. A new highly diastereoselective synthesis of epi-inositol from D-galactose

AU Pistara, Venerando; Barili, Pier Luigi; Catelani, Giorgio; Corsaro, Antonino; D'Andrea, Felicia; Fisichella, Salvatore

CS Dipartimento di Scienze Chimiche, Universita degli Studi di Catania, Catania, I-95125, Italy

SO Tetrahedron Letters (2000), 41(17), 3253-3256

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 133:105232

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB New methods are given for the prodn. of cellodextrins by the trifluoroacetic acid hydrolysis of cellulose and for the subsequent anal. and preparative high-performance liq. chromatog. (HPLC) of these useful oligosaccharides. In addn., recently developed methods for the anal. and preparative HPLC of inositols and pectin oligosaccharides are discussed.

AN 1995:463928 CAPLUS

DN 122:242660

TI Analytical and preparative HPLC of carbohydrates: inositols and oligosaccharides derived from cellulose and pectin

AU Hicks, Kevin B.; Hotchkiss, Arland T. Jr.; Sasaki, Ken; Irwin, Peter L.; Doner, Landis W.; Nagahashi, Gerald; Haines, Rebecca M.

CS Eastern Regional Research Center, Agricultural Research Service, USDA, Philadelphia, PA, 19118, USA

SO Carbohydrate Polymers (1994), 25(4), 305-13  
CODEN: CAPOD8; ISSN: 0144-8617

PB Elsevier

DT Journal

LA English

L5 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB Pseudomonas putida microbial oxidn. of benzene and singlet oxygen reaction of the resulting cis-cyclohexa-3,5-diene-1,2-diol have been used in the synthesis of four inositols (the muco, allo, epi and (.+-.)-chiro isomers) and of the 2-O-methyl-chiro-inositol, (.+-.)-quebrachitol.

AN 1994:54834 CAPLUS

DN 120:54834

TI Microbial oxidation of benzene as a route to inositol stereoisomers and (.+-.)-quebrachitol

AU Carless, Howard A. J.; Busia, K.; Oak, O. Z.

CS Dep. Chem., Birkbeck Coll., London, WC1H 0PP, UK

SO Synlett (1993), (9), 672-4

CODEN: SYNLES; ISSN: 0936-5214

DT Journal

LA English

OS CASREACT 120:54834

L5 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB A method for Pd-catalyzed hydrogenation and deuteration of tetrahydroxybenzoquinone to give title compds. and their deuterated derivs., which were sepd. by liq. chromatog. using Ca2+ exchange resins.

AN 1993:603752 CAPLUS

DN 119:203752

TI preparation of cis-inositol, meso-inositol, epi-inositol, and cis-quercitol

IN Odier, Leon

PA Commissariat a l'Energie Atomique, Fr.

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 524082	A1	19930120	EP 1992-402031	19920715
	EP 524082	B1	19951018		
	R: BE, CH, DE, GB, LI				
	FR 2679229	A1	19930122	FR 1991-8958	19910716
	FR 2679229	B1	19940805		
	AU 9219451	A1	19930121	AU 1992-19451	19920703
	AU 652647	B2	19940901		
PRAI	FR 1991-8958		19910716		

L5 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2003 ACS



AB Conductometric, potentiometric and titrimetric studies of aq. telluric acid at pH 4.8-11.0 in the presence of acyclic hexols show that whereas only 1:1 complexes are formed at low pH, 1:3 polyol-tellurates exist only in strongly alk. media. The 1:2 chelates behave as transient intermediates. Cyclohexols exclusively form 1:1 complexes with stannate(IV), antimonate(V) and tellurate(VI) oxyanions, even at extreme pH conditions.

AN 1985:196886 CAPLUS

DN 102:196886

TI On the chelation of stannate(IV), antimonate(V) and tellurate(VI) anions with cyclic and acyclic hexols

AU Mbabazi, Jolocam

CS Dep. Chem., Makerere Univ., Kampala, Uganda

SO Polyhedron (1985), 4(1), 75-80

CODEN: PLYHDE; ISSN: 0277-5387

DT Journal

LA English

L5 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB The esters were prepd. by reaction of 5-nitro-2-furoyl chloride with inositol stereoisomers in CHCl<sub>3</sub> at low temp. The esters were characterized by paper chromatog. For the food industry, their antimicrobial activities were tested, and the antimicrobial activity of muco-inositol ester was superior to the others.

AN 1974:108787 CAPLUS

DN 80:108787

TI Synthesis of cyclitol derivatives. 6. Synthesis of O-(5-nitro-2-furoyl)-inositols and their applications in the food industry

AU Sohn, Joo Hwan; Kim, Yong In; Park, Young Rang

CS Dep. Chem. Eng., Inha Univ., Incheon, S. Korea

SO Han'guk Sikp'um Kwahakhoechi (1973), 5(4), 249-57

CODEN: HSKCAN; ISSN: 0367-6293

DT Journal

LA Korean

L5 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB Redn. of penta-O-acetyl-myo-inosose-2 by catalytic hydrogenation and with sodium-amalgam was carried out in alc. soln. at pH 3 .apprx. 4. The former reduction product was axial-alc., and the latter equatorial-alc. On redn. of penta-O-acetyl-DL-epi-inosose-2 with NaBH<sub>4</sub> and sodium-amalgam in the previous condition, ax.-alc. and eq.-alc. were obtained. The synthesis of various inositol-p-hydroxybenzoates are described. The esters were characterized by paper chromatog. and sapon. and their antimicrobial activities were tested for the application of food industry. The antimicrobial activity of epi-inositol ester was superior to its analogous.

AN 1974:108786 CAPLUS

DN 80:108786

TI Synthesis of cyclitol derivatives. 5. Synthesis of O-(p-hydroxybenzoyl)-inositols and their applications in the food industry

AU Sohn, Joo Hwan

CS Dep. Chem. Eng., Inha Univ., Incheon, S. Korea

SO Han'guk Sikp'um Kwahakhoechi (1973), 5(4), 240-8

CODEN: HSKCAN; ISSN: 0367-6293

DT Journal

LA Korean

L5 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB Cis-Inositol was synthesized from epiinositol in 7 steps in an overall yield of 25%. The required inversion at C-6 was achieved by oxidn. with Me<sub>2</sub>SO-Ac<sub>2</sub>O followed by stereospecific redn.

AN 1971:530042 CAPLUS

DN 75:130042

TI Cyclitols. XXXIII. Practical synthesis of cis-inositol

AU Angyal, S. J.; Hickman, R. J.

CS Sch. Chem., Univ. New South Wales, Kensington, Australia  
SO Carbohydrate Research (1971), 20(1), 97-104  
CODEN: CRBRAT; ISSN: 0008-6215  
DT Journal  
LA English

=> s epi (3a) inosose  
9420 EPI  
27 EPIS  
9436 EPI  
(EPI OR EPIS)  
272 INOSOSE  
30 INOSOSSES  
278 INOSOSE  
(INOSOSE OR INOSOSSES)  
L6 52 EPI (3A) INOSOSE

=> d ti l6

L6 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Preparation of L-epi-inositol

=> d ti tot

L6 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Preparation of L-epi-inositol

L6 ANSWER 2 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Compositions for inhibiting the proliferation of human immunodeficiency virus and method of inhibiting the proliferation of this virus

L6 ANSWER 3 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI (-)-**epi-Inosose-2**

L6 ANSWER 4 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Novel process for producing L-**epi-2-inosose** by microbial oxidation of myo-inositol and novel process for producing epi-inositol

L6 ANSWER 5 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Rare and complex saccharides from D-galactose and other milk-derived carbohydrates. Part 12. A new highly diastereoselective synthesis of epi-inositol from D-galactose

L6 ANSWER 6 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Synthesis, structure-activity relationships, and the effect of polyethylene glycol on inhibitors of phosphatidylinositol-specific phospholipase C from *Bacillus cereus*

L6 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Enzymic synthesis of aminocyclitol moieties of aminoglycoside antibiotics from inositol by *Streptomyces* spp.: detection of glutamine-aminocyclitol aminotransferase and diaminocyclitol aminotransferase activities in a spectinomycin producer

L6 ANSWER 8 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Cyclitol:NADP oxidoreductase: purification, characterization, and use for analysis and synthesis

L6 ANSWER 9 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Lithium treatment of sea urchin sperm inhibits their ability to fertilize sea urchin oocytes

L6 ANSWER 10 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Reactions catalyzed by purified L-glutamine:keto-scyлло-inositol aminotransferase, an enzyme required for biosynthesis of aminocyclitol antibiotics

L6 ANSWER 11 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Enediol-anion formation and .beta.-elimination of cyclic .alpha.-hydroxycarbonyl compounds as studied by UV and NMR spectroscopy

L6 ANSWER 12 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Evaluation of the mass spectral analysis of soil inositol, inositol phosphates, and related compounds

L6 ANSWER 13 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Gamma-irradiation of cyclitols. I. Possibilities for thin-layer chromatographic separation of aqueous reaction mixtures. Qualitative determination of the fission product

L6 ANSWER 14 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Synthesis of cyclitol derivatives. 5. Synthesis of O-(p-hydroxybenzoyl)-inositols and their applications in the food industry

L6 ANSWER 15 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Synthesis of cyclitol derivatives. IV. Electrolytic reduction of DL-**epi-2-inosose**

L6 ANSWER 16 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Dimethyl sulfoxide oxidation of inositol derivatives

L6 ANSWER 17 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Distribution and properties of CDP-diglyceride:inositol transferase from brain

L6 ANSWER 18 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Reduction of DL-**epi-inosose-2** and its acetyl derivative

L6 ANSWER 19 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Methods in inositol chemistry. III. Bromine oxidation of inositols for preparation of inosose phenylhydrazones and phenylosazones

L6 ANSWER 20 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Formation of arylazocyclohexene derivatives on acylation of certain inosose phenylhydrazones

L6 ANSWER 21 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Methods in inositol chemistry. II. Acetic anhydride-phosphoric acid as an acetylating agent

L6 ANSWER 22 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Inositol biosynthesis in *Neurospora crassa*

L6 ANSWER 23 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Preparation of inososes from their phenylhydrazones by use of a cation-exchange resin; separation of certain phenylhydrazones from phenylosazones

L6 ANSWER 24 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Hydrogenolysis of carbohydrates. X. Hydrogenolysis of (.+-.)-**epi-inos-2-ose**

L6 ANSWER 25 OF 52 CAPLUS COPYRIGHT 2003 ACS  
TI Preparation of inososes and inositols from aldaric acid derivatives

L6 ANSWER 26 OF 52 CAPLUS COPYRIGHT 2003 ACS

TI D-**epi-Inosose-2** (D-**epi-inosose**).  
 Bacterial oxidation of **epi-inositol**

L6 ANSWER 27 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Cyclitol series. XXXI. On the aromatization of inososes

L6 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Cyclitol series. XXX. On the melting points and reduction of penta-Oacetyl inosose derivatives

L6 ANSWER 29 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Cyclitols and their methyl ethers. III. Catalytic air oxidation, the hydrogenolysis of ionoses, and some pentol and tetrol methyl ethers

L6 ANSWER 30 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Synthesis of some substituted cyclitols and correlation of structure with their spectra

L6 ANSWER 31 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Paper electrophoresis of hexane hexols and of the products of controlled oxidation of meso-inositol

L6 ANSWER 32 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Comparison of the factors which affect the formation of adaptive enzymes for benzoic acid and inositol in a Mycobacterium

L6 ANSWER 33 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Cyclitol series. XXIII. The reduction of two inososes by sodium borohydride

L6 ANSWER 34 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI The biochemistry of cyclitols. The utilization of three inososes by six microorganisms

L6 ANSWER 35 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Oxidative transformation of carbohydrates. X. A synthesis of streptamine from myo-inositol via the DL-2-oxo-myo-inosamine-4

L6 ANSWER 36 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI meso-Inositol, a growth factor for *Saccharomyces cerevisiae*. I. Role and specificity of meso-inositol in pyrimidine metabolism

L6 ANSWER 37 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Alicyclic reductones. I. Enediolization of DL-**epi-mesoinosose** and of scyllo-meso-inosose

L6 ANSWER 38 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Cyclitol series. XX. Paper chromatography of cyclitols and cycloses

L6 ANSWER 39 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Cyclitols. XVII. Oxidation of various cyclitols by *Acetobacter suboxydans*

L6 ANSWER 40 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Oxidative transformation of carbohydrates. VIII. Catalytic oxidation of meso-inositol to scyllo-meso-inosose

L6 ANSWER 41 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Stereochemical studies in the aminodeoxyinositol series. II. DL-myo-Inosamine-4, DL-**epi-inosamine-2**, and streptamine

L6 ANSWER 42 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Polarographic study of inosose

L6 ANSWER 43 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI myo- and DL-**epi-Inosose-2**

L6 ANSWER 44 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Bacterial enzyme preparations oxidizing inositol and their inhibition by colchicine

L6 ANSWER 45 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI The cyclitol series. VIII. The configuration of DL-**epi**-ms-**inosose** and its l-rotatory form obtained by biochemical means

L6 ANSWER 46 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Cyclitol derivatives. I. Derivatives of dl-epiinosose

L6 ANSWER 47 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Synthesis of amino analogs of inositol (inosamines)

L6 ANSWER 48 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Stereochemistry of an enzymic reaction: oxidation of l-, d-, and epi-inositol by Acetobacter suboxydans

L6 ANSWER 49 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI The cyclitol series. VIII. The configuration of DL-epims-inosose and its l-rotatory form obtained by biochemical means

L6 ANSWER 50 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI The cyclitol series. VIII. The configuration of DL-**epi**-ms-**inosose** and its l-rotatory form obtained by biochemical means

L6 ANSWER 51 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Oxidation of stereoisomers of the inositol group by Acetobacter suboxydans

L6 ANSWER 52 OF 52 CAPLUS COPYRIGHT 2003 ACS  
 TI Cyclitol series. VI. The configuration of meso-inositol, scyllitol and the inosose obtained by biochemical means (scyllo-ms-inosose)

=> s microb? or microorg? or fung? or bacteri?

336807 MICROB?

132112 MICROORG?

181642 FUNG?

497376 BACTERI?

L7 940369 MICROB? OR MICROORG? OR FUNG? OR BACTERI?

=> d his

(FILE 'HOME' ENTERED AT 14:12:52 ON 02 JUN 2003)

FILE 'REGISTRY' ENTERED AT 14:12:59 ON 02 JUN 2003

E L-EPI-2-INOSONE/CN

E INOSONE/CN

E L-EPI-2-INOSOSE/CN

E INOSOSE/CN

L1 1 S E39

E MYO-INOSITOL/CN

L2 1 S E51

E EPI-INOSITOL/CN

L3 1 S E63

FILE 'STNGUIDE' ENTERED AT 14:16:31 ON 02 JUN 2003

FILE 'CAPLUS' ENTERED AT 14:17:11 ON 02 JUN 2003

L4 0 S L3/BPN

L5 10 S L3/PREP

L6 52 S EPI (3A) INOSOSE

L7 940369 S MICROB? OR MICROORG? OR FUNG? OR BACTERI?

=> s 16 and 17  
L8 7 L6 AND L7

=> d ti 18

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS  
TI Novel process for producing L-**epi-2-inosose** by  
**microbial** oxidation of myo-inositol and novel process for  
producing epi-inositol

=> d ti tot

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS  
TI Novel process for producing L-**epi-2-inosose** by  
**microbial** oxidation of myo-inositol and novel process for  
producing epi-inositol

L8 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS  
TI Evaluation of the mass spectral analysis of soil inositol, inositol  
phosphates, and related compounds

L8 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS  
TI Synthesis of cyclitol derivatives. 5. Synthesis of O-(p-hydroxybenzoyl)-  
inositols and their applications in the food industry

L8 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS  
TI D-**epi-Inosose-2** (D-**epi-inosose**).  
**Bacterial** oxidation of **epi-inositol**

L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS  
TI The biochemistry of cyclitols. The utilization of three inososes by six  
**microorganisms**

L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS  
TI **Bacterial** enzyme preparations oxidizing inositol and their  
inhibition by colchicine

L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS  
TI Cyclitol series. VI. The configuration of meso-inositol, scyllitol and the  
inosose obtained by biochemical means (scyllo-ms-inosose)

=> d ab bib 4 5 6 7

L8 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS  
AB Unavailable  
AN 1963:73655 CAPLUS  
DN 58:73655  
OREF 58:12651d  
TI D-**epi-Inosose-2** (D-**epi-inosose**).  
**Bacterial** oxidation of **epi-inositol**  
AU Posternak, Th.  
CS Univ. Geneva, Switz.  
SO Methods in Carbohydrate Chemistry (1962), 1, 289-91  
CODEN: MCACAI; ISSN: 0097-3602  
DT Journal  
LA Unavailable

L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS  
AB Six inositol-requiring **microorganisms** (*Saccharomyces cerevisiae*,  
*S. veronae*, *Torulopsis bacillaris*, *Kloeckera brevis*, *Schizosaccharomyces*  
*pombe* liquefaciens strain (I), and inositol-less *Neurospora crassa*) were  
grown on media contg. one of 3 **inososes** (scyllo-meso-  
**inosose**, **epi-meso-inosose**, and d-inosose) or

inositol. Each organism was able to reduce the C:O group of the inosose, more or less specifically. Chromatographic analysis revealed the presence of inositol in the media of I to which only inosose had been added. I was able to use the l but not the d form of **epi-meso-inosose**.  
. N. crassa used both forms.

AN 1957:26179 CAPLUS

DN 51:26179

OREF 51:5197e-f

TI The biochemistry of cyclitols. The utilization of three inososes by six **microorganisms**

AU Schopfer, W. H.; Posternak, Th.

CS Univ. Bern, Switz.

SO Schweiz. Z. allgem. Pathol. u. Bakteriол. (1956), 19, 654-9

DT Journal

LA Unavailable

L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS

AB Cell-free enzyme prepns. (I) of Acetobacter suboxydans (II) preserved the ability of resting II to oxidize glucose to gluconic acid but were found to require an addnl. factor for the oxidation of meso, d- and epi-inositol, d-quercitol, and dl-**epi-inosose**. Heat-inactivated cells of II accelerated the oxidation of meso-inositol by I. Colchicine appeared to be a specific inhibitor for the oxidation of the inositols (but not glucose) by I; it did not affect the heat-stable factor. Other cycloheptanes, tropolone and 4,5-tetramethylenetropolone, exhibited similar inhibiting effects. Results of varying concns. of the inhibitors and I on the oxidation rates of the inositols are given.

AN 1952:20936 CAPLUS

DN 46:20936

OREF 46:3610d-f

TI **Bacterial** enzyme preparations oxidizing inositol and their inhibition by colchicine

AU Franzl, Robert E.; Chargaff, Erwin

CS Columbia Univ.

SO Nature (1951), 168, 955-7

DT Journal

LA Unavailable

L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS

AB cf. C. A. 36, 2256.8. Inosose (I) was prepd. by the action of Acetobacter suboxydans on meso-inositol (II). I upon reduction with Na-Hg yields 2 cyclitols: II and scyllitol (III). III has the same m. p., 352-3.degree. (cor., Maquenne block) as natural scyllitol from Acanthia vulgaris and both yield hexaacetates m. 299.degree.. The dl-idosaccharic acid salts prepd. from scyllo-ms-inosose were identical with those prepd. from d- and l-xyloses by conventional means. P. indicates that because I was prepd. by **bacteria** it is extremely probable that it is optically inactive because of intramol. compensation. The author reviews the evidence for the present formula for II and suggests IV for inosose. Therefore meso-inositol must be II and scyllitol must be III. The pentahydroxycyclohexanones can have 16 possible stereoisomers with 4 sym. configurations and 6 pairs of optical antipodes, only 2 of which are known. P. suggests a nomenclature for the cycloses. To indicate the positions of the OH groups one places above or below a fraction bar the number of the C atoms concerned. Thus III becomes 2,4,6/3,5-inosose. The name of the cyclose is derived from the corresponding cyclitol. The derivs. prepd. from meso-inositol are designated ms-inositols. The cyclose prepd. by **bacterial** means from meso-inositol becomes scyllo-ms-inosose; the inosose prepd. by nitric oxidation and which when subsequently reduced furnishes, besides the meso-inositol, epiinositol (cf. C. A. 31, 1774.9), will be named **epi-ms-inosose**.

AN 1943:520 CAPLUS

DN 37:520

OREF 37:93h-i,94a-f

TI Cyclitol series. VI. The configuration of meso-inositol, scyllitol and the

inosose obtained by biochemical means (scyllo-ms-inosose)  
AU Posternak, Theodore  
SO Helv. Chim. Acta (1942), 25, 746-52  
DT Journal  
LA French

=> DIS HIST

(FILE 'HOME' ENTERED AT 14:12:52 ON 02 JUN 2003)

FILE 'REGISTRY' ENTERED AT 14:12:59 ON 02 JUN 2003

E L-EPI-2-INOSONE/CN  
E INOSONE/CN  
E L-EPI-2-INOSOSE/CN  
E INOSOSE/CN  
L1 1 S E39  
E MYO-INOSITOL/CN  
L2 1 S E51  
E EPI-INOSITOL/CN  
L3 1 S E63

FILE 'STNGUIDE' ENTERED AT 14:16:31 ON 02 JUN 2003

FILE 'CAPLUS' ENTERED AT 14:17:11 ON 02 JUN 2003

L4 0 S L3/BPN  
L5 10 S L3/PREP  
L6 52 S EPI (3A) INOSOSE  
L7 940369 S MICROB? OR MICROORG? OR FUNG? OR BACTERI?  
L8 7 S L6 AND L7

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Executing the logoff script...

=> LOG H

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	69.76	90.13
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-8.46	-8.46

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PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
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FILE 'CAPLUS' ENTERED AT 15:04:54 ON 02 JUN 2003  
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	69.76	90.13
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-8.46	-8.46

=> d his

(FILE 'HOME' ENTERED AT 14:12:52 ON 02 JUN 2003)

FILE 'REGISTRY' ENTERED AT 14:12:59 ON 02 JUN 2003

E L-EPI-2-INOSONE/CN  
E INOSONE/CN  
E L-EPI-2-INOSOSE/CN  
E INOSOSE/CN  
L1 1 S E39  
E MYO-INOSITOL/CN  
L2 1 S E51  
E EPI-INOSITOL/CN  
L3 1 S E63

FILE 'STNGUIDE' ENTERED AT 14:16:31 ON 02 JUN 2003

FILE 'CAPLUS' ENTERED AT 14:17:11 ON 02 JUN 2003

L4 0 S L3/BPN  
L5 10 S L3/PREP  
L6 52 S EPI (3A) INOSOSE  
L7 940369 S MICROB? OR MICROORG? OR FUNG? OR BACTERI?  
L8 7 S L6 AND L7

=> d l8 ab bib

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS

AB L-Epi-2-inosose and epi-inositol, which are useful as various drugs or synthesis intermediates, can be efficiently produced from less expensive myo-inositol. Myo-inositol is treated with a gram-neg. bacterium. e.g. Xanthomonas sp., capable of converting myo-inositol into L-epi-2-inosose to thereby convert the myo-inositol into L-epi-2-inosose. The L-epi-2-inosose thus obtained is further reacted in an aq. reaction medium with a reducing agent comprising an alkali metal boron hydride or another alkali metal hydride to form epi-inositol and myo-inositol. Next, the epi-inositol is sepd. and isolated from the redn. reaction mixt. comprising epi-inositol and myo-inositol to give epi-inositol.

AN 2000:881342 CAPLUS

DN 134:42384

TI Novel process for producing L-epi-2-inosose by microbial oxidation of myo-inositol and novel process for producing epi-inositol

IN Takahashi, Atsushi; Kanbe, Kenji; Mori, Tetsuya; Kita, Yuichi; Tamamura, Tsuyoshi; Takeuchi, Tomio

PA Hokko Chemical Industry Co., Ltd., Japan; Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai

SO PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2000075355	A1	20001214	WO 2000-JP3687	20000607
W: CA, CN, IL, IN, JP, KR, US				

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE  
EP 1197562 A1 20020417 EP 2000-937174 20000607  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO  
PRAI JP 1999-159861 A 19990607  
JP 1999-340523 A 19991130  
JP 2000-151709 A 20000523  
WO 2000-JP3687 W 20000607  
OS CASREACT 134:42384  
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ind

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS  
IC C12P019-02; C12N001-20; C12P019-02; C12R001-64; C12P019-02; C12R001-38;  
C12P019-02; C12R001-02; C12P019-02; C12R001-18; C12P019-02; C12R001-425;  
C12P019-02; C12R001-21; C12P019-02; C12R001-01; C12N001-20; C12R001-64;  
C12N001-20; C12R001-38  
CC 33-6 (Carbohydrates)  
Section cross-reference(s): 16  
ST gram neg **bacterium** Xanthomonas **microbial** oxidn.  
myoinositol; epiinosose prepn redn; epiinositol prepn  
IT Oxidation  
(biol.; novel process for producing L-epiinosose by **microbial**  
oxidn. of myo-inositol and boron hydride-redn. to epi-inositol)  
IT Acetobacter  
Acetobacteraceae  
Agrobacterium  
Enterobacter  
Enterobacteriaceae  
Erwinia  
Gluconobacter  
Gram-negative **bacteria**  
Haemophilus  
Pasteurella  
Pasteurellaceae  
Pseudomonadaceae  
Pseudomonas  
Reduction  
Rhizobiaceae  
Serratia  
Xanthomonas  
Yersinia  
(novel process for producing L-epiinosose by **microbial** oxidn.  
of myo-inositol and boron hydride-redn. to epi-inositol)  
IT 6623-68-3P, **epi-2-Inosose**  
RL: BPN (Biosynthetic preparation); RCT (Reactant); BIOL (Biological  
study); PREP (Preparation); RACT (Reactant or reagent)  
(novel process for producing L-epiinosose by **microbial** oxidn.  
of myo-inositol and boron hydride-redn. to epi-inositol)  
IT 87-89-8, myo-Inositol  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(novel process for producing L-epiinosose by **microbial** oxidn.  
of myo-inositol and boron hydride-redn. to epi-inositol)  
IT 488-58-4P, epi-Inositol  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(novel process for producing L-epiinosose by **microbial** oxidn.  
of myo-inositol and boron hydride-redn. to epi-inositol)

=> s 6623-68-3P

L9 4 6623-68-3P

=> d ab bib tot

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS

AB L-Epi-2-inosose and epi-inositol, which are useful as various drugs or synthesis intermediates, can be efficiently produced from less expensive myo-inositol. Myo-inositol is treated with a gram-neg. bacterium. e.g. Xanthomonas sp., capable of converting myo-inositol into L-epi-2-inosose to thereby convert the myo-inositol into L-epi-2-inosose. The L-epi-2-inosose thus obtained is further reacted in an aq. reaction medium with a reducing agent comprising an alkali metal boron hydride or another alkali metal hydride to form epi-inositol and myo-inositol. Next, the epi-inositol is sepd. and isolated from the redn. reaction mixt. comprising epi-inositol and myo-inositol to give epi-inositol.

AN 2000:881342 CAPLUS

DN 134:42384

TI Novel process for producing L-epi-2-inosose by microbial oxidation of myo-inositol and novel process for producing epi-inositol

IN Takahashi, Atsushi; Kanbe, Kenji; Mori, Tetsuya; Kita, Yuichi; Tamamura, Tsuyoshi; Takeuchi, Tomio

PA Hokko Chemical Industry Co., Ltd., Japan; Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai

SO PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000075355	A1	20001214	WO 2000-JP3687	20000607
	W: CA, CN, IL, IN, JP, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1197562	A1	20020417	EP 2000-937174	20000607
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	JP 1999-159861	A	19990607		
	JP 1999-340523	A	19991130		
	JP 2000-151709	A	20000523		
	WO 2000-JP3687	W	20000607		

OS CASREACT 134:42384

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS

AB Controlled oxidn. of myo-inositol [87-89-8] with HNO3 gave DL-2,3,4,6/5-pentahydroxycyclohexanone (I) [6623-68-3], purified via the phenylhydrazone and the pentaacetate. This compd. was treated with CH2N2 in Et2O, to give DL-4,7-anhydro-4-hydroxymethyl-epi-inositol (II) [52882-07-2]. II treated with ethylenediamine in abs. MeOH for 3 hr under reflux gave DL-4-C-[N-(ethylamino)aminomethyl]-epi-inositol (III) [52828-92-9]. III was purified by addn. of petroleum ether to ppt. the crude III, resoln. in MeOH, conversion to the hydrochloride by addn. of HCl-satd. MeOH, neutralization, and recrystn. from aq. MeOH, giving III with capillary m.p. .apprx.145.degree.. Sepharose 4B was treated with BrCN at pH 11, and then coupled with .epsilon.silicon.-aminocaproic acid by heating for 15 hr. The Sepharose deriv. was sepd. and washed successively with dil. NaHCO3, dil. HCl, NaCl soln, and water. It was then washed with pyridine, and treated with III in water and N,N'-dicyclohexylcarbodiimide (DCC) in pyridine, shaking 10 days at room temp. The gel was then recovered, retreated with DCC and washed successively with dil. HCl, cold dil. NaHCO3, dil. NaCl soln., and water. This material can be used in the affinity chromatog. of inositol oxygenase [9029-59-8], myo-inositol 1-phosphate synthase [9032-95-5], and inositol-phosphorylating enzymes.

AN 1974:532205 CAPLUS

DN 81:132205  
 TI Synthesis of a specifically substituted Sepharose derivative for the  
 affinity chromatography of enzymes acting on myo-inositol  
 AU Koller, F.; Hoffmann-Ostenhof, O.  
 CS Inst. Allg. Biochem., Univ. Wien, Vienna, Austria  
 SO Monatshefte fuer Chemie (1974), 105(2), 379-81  
 CODEN: MOCMB7; ISSN: 0026-9247  
 DT Journal  
 LA German

L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS  
 AB The esters were prepd. by reaction of 5-nitro-2-furoyl chloride with  
 inositol stereoisomers in CHCl3 at low temp. The esters were  
 characterized by paper chromatog. For the food industry, their  
 antimicrobial activities were tested, and the antimicrobial activity of  
 muco-inositol ester was superior to the others.  
 AN 1974:108787 CAPLUS  
 DN 80:108787  
 TI Synthesis of cyclitol derivatives. 6. Synthesis of O-(5-nitro-2-furoyl)-  
 inositols and their applications in the food industry  
 AU Sohn, Joo Hwan; Kim, Yong In; Park, Young Rang  
 CS Dep. Chem. Eng., Inha Univ., Inchon, S. Korea  
 SO Han'guk Sikp'um Kwahakhoechi (1973), 5(4), 249-57  
 CODEN: HSKCAN; ISSN: 0367-6293  
 DT Journal  
 LA Korean

L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS  
 AB Redn. of penta-O-acetyl-myo-inosose-2 by catalytic hydrogenation and with  
 sodium-amalgam was carried out in alc. soln. at pH 3 .apprx. 4. The  
 former reduction product was axial-alc., and the latter equatorial-alc.  
 On redn. of penta-O-acetyl-DL-epi-inosose-2 with NaBH4 and sodium-amalgam  
 in the previous condition, ax.-alc. and eq.-alc. were obtained. The  
 synthesis of various inositol-p-hydroxybenzoates are described. The  
 esters were characterized by paper chromatog. and sapon. and their  
 antimicrobial activities were tested for the application of food industry.  
 The antimicrobial activity of epi-inositol ester was superior to its  
 analogous.  
 AN 1974:108786 CAPLUS  
 DN 80:108786  
 TI Synthesis of cyclitol derivatives. 5. Synthesis of O-(p-hydroxybenzoyl)-  
 inositols and their applications in the food industry  
 AU Sohn, Joo Hwan  
 CS Dep. Chem. Eng., Inha Univ., Inchon, S. Korea  
 SO Han'guk Sikp'um Kwahakhoechi (1973), 5(4), 240-8  
 CODEN: HSKCAN; ISSN: 0367-6293  
 DT Journal  
 LA Korean

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	85.11	105.48
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-11.72	-11.72

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 15:06:55 ON 02 JUN 2003

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LOGINID:sssptau184im

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 Jun 03 New e-mail delivery for search results now available  
NEWS 4 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN  
NEWS 5 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)  
now available on STN  
NEWS 6 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 7 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 8 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 9 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 10 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 11 Oct 24 BEILSTEIN adds new search fields  
NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN  
NEWS 13 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 14 Nov 25 More calculated properties added to REGISTRY  
NEWS 15 Dec 04 CSA files on STN  
NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 17 Dec 17 TOXCENTER enhanced with additional content  
NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
ENERGY, INSPEC  
NEWS 20 Feb 13 CANCERLIT is no longer being updated  
NEWS 21 Feb 24 METADEX enhancements  
NEWS 22 Feb 24 PCTGEN now available on STN  
NEWS 23 Feb 24 TEMA now available on STN  
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation  
NEWS 25 Feb 26 PCTFULL now contains images  
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results  
NEWS 27 Mar 20 EVENTLINE will be removed from STN  
NEWS 28 Mar 24 PATDPAFULL now available on STN  
NEWS 29 Mar 24 Additional information for trade-named substances without  
structures available in REGISTRY  
NEWS 30 Apr 11 Display formats in DGENE enhanced  
NEWS 31 Apr 14 MEDLINE Reload  
NEWS 32 Apr 17 Polymer searching in REGISTRY enhanced  
NEWS 33 Apr 21 Indexing from 1947 to 1956 being added to records in CA/CAPLUS  
NEWS 34 Apr 21 New current-awareness alert (SDI) frequency in  
WPIDS/WPINDEX/WPIX  
NEWS 35 Apr 28 RDISCLOSURE now available on STN  
NEWS 36 May 05 Pharmacokinetic information and systematic chemical names  
added to PHAR  
NEWS 37 May 15 MEDLINE file segment of TOXCENTER reloaded  
NEWS 38 May 15 Supporter information for ENCOMPPAT and ENCOMPLIT updated  
NEWS 39 May 16 CHEMREACT will be removed from STN  
NEWS 40 May 19 Simultaneous left and right truncation added to WSCA  
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and  
right truncation

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 07:27:21 ON 06 JUN 2003

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 07:27:32 ON 06 JUN 2003

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STRUCTURE FILE UPDATES: 4 JUN 2003 HIGHEST RN 525536-93-0

DICTIONARY FILE UPDATES: 4 JUN 2003 HIGHEST RN 525536-93-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e myo-inosose/cn

E1	1	MYO-INOSITOL-SODIUM-COTRANSPORTING PROTEIN (MESEMBRYANTHEMUM CRYSTALLINUM GENE ITR1 TONOPLAST-ASSOCIATED)/CN
E2	1	MYO-INOSITOL-SODIUM-COTRANSPORTING PROTEIN (MESEMBRYANTHEMUM CRYSTALLINUM GENE ITR2 TONOPLAST-ASSOCIATED)/CN
E3	0 -->	MYO-INOSOSE/CN
E4	1	MYO-INOSOSE REDUCTASE/CN
E5	1	MYO-INOSOSE-2/CN
E6	1	MYO-INOSOSE-2, 4-C-METHYL-/CN
E7	1	MYO-INOSOSE-2, PENTABENZOATE/CN
E8	1	MYO-INOSOSE-2-DEHYDRATASE/CN
E9	1	MYO-SALVARSAN/CN
E10	1	MYO/V1 PROTEIN (RAT)/CN
E11	1	MYOACTIN C/CN
E12	1	MYOACTIVE FACTOR M I (PERIPLANETA AMERICANA)/CN

=> s e3-35

'E35' NOT FOUND

The E# entered is not currently defined.

=> s e3-e5

0 MYO-INOSOSE/CN  
1 "MYO-INOSOSE REDUCTASE"/CN  
1 MYO-INOSOSE-2/CN  
L1 2 (MYO-INOSOSE/CN OR "MYO-INOSOSE REDUCTASE"/CN OR MYO-INOSOSE-2/CN)  
N)

=> d l1

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS  
RN 51377-54-9 REGISTRY  
CN Reductase, inosose (reduced nicotinamide adenine dinucleotide (phosphate))  
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN Inosose reductase (NAD(P)H)

CN **myo-Inosose reductase**

MF Unspecified

CI MAN

LC STN Files: CA, CAPLUS

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

3 REFERENCES IN FILE CA (1957 TO DATE)

3 REFERENCES IN FILE CAPLUS (1957 TO DATE)

=> d 2

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS

RN 488-64-2 REGISTRY

CN myo-2-Inosose (7CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Inosose, myo- (8CI)

CN **myo-Inosose-2 (6CI)**

OTHER NAMES:

CN keto-scyлло-Inositol

CN meso-2,3,4,5,6-Pentahydroxycyclohexanone

CN Myoinosose

CN scyлло-Inosose

CN scyлло-myo-Inosose

CN Scyллоinosose

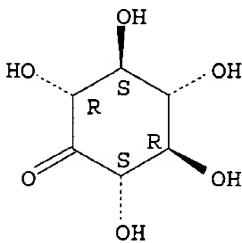
FS STEREOSEARCH

DR 13309-55-2, 23327-66-4, 5618-72-4

MF C6 H10 O6

LC STN Files: AGRICOLA, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,  
CASREACT, CHEMINFORMRX, CSChem, MEDLINE, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

58 REFERENCES IN FILE CA (1957 TO DATE)  
58 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> DIS HIST

(FILE 'HOME' ENTERED AT 07:27:21 ON 06 JUN 2003)

FILE 'REGISTRY' ENTERED AT 07:27:32 ON 06 JUN 2003

E MYO-INOSOSE/CN

L1 2 S E3-E5

=>

=>

Executing the logoff script...

=> LOG H

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.62	17.83

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 07:29:48 ON 06 JUN 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptaul84im

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

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NEWS 20 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation

NEWS 21 Jun 06 Simultaneous left and right truncation added to CBNE

NEWS 22 Jun 06 PASCAL enhanced with additional data

NEWS 23 Jun 20 2003 edition of the FSTA Thesaurus is now available

NEWS 24 Jun 25 HSDB has been reloaded

NEWS 25 Jul 16 Data from 1960-1976 added to RDISCLOSURE

NEWS 26 Jul 21 Identification of STN records implemented

NEWS 27 Jul 21 Polymer class term count added to REGISTRY

NEWS 28 Jul 22 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available

NEWS 29 AUG 05 New pricing for EUROPATFULL and PCTFULL effective August 1, 2003

NEWS 30 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN

NEWS 31 AUG 15 PATDPAFULL: one FREE connect hour, per account, in September 2003

NEWS 32 AUG 15 PCTGEN: one FREE connect hour, per account, in September 2003

NEWS 33 AUG 15 RDISCLOSURE: one FREE connect hour, per account, in September 2003

NEWS 34 AUG 15 TEMA: one FREE connect hour, per account, in September 2003

NEWS 35 AUG 18 Data available for download as a PDF in RDISCLOSURE

NEWS 36 AUG 18 Simultaneous left and right truncation added to PASCAL

NEWS 37 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation

NEWS 38 AUG 18 Simultaneous left and right truncation added to ANABSTR

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

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NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 12:55:16 ON 25 AUG 2003

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:55:23 ON 25 AUG 2003

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STRUCTURE FILE UPDATES: 22 AUG 2003 HIGHEST RN 571902-82-4  
DICTIONARY FILE UPDATES: 22 AUG 2003 HIGHEST RN 571902-82-4

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

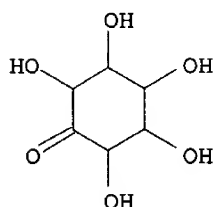
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=> e pentahydroxycyclohexanone/cn
E1      1      PENTAHYDROXYBENZENE/CN
E2      1      PENTAHYDROXYCAPROIC ACID/CN
E3      1 --> PENTAHYDROXYCYCLOHEXANONE/CN
E4      1      PENTAHYDROXYFLAVONE/CN
E5      1      PENTAHYDROXYHEXANOIC ACID/CN
E6      1      PENTAHYDROXYNEPTUNATE (1-)/CN
E7      1      PENTAHYDROXYOCTANE/CN
E8      1      PENTAHYDROXYPALLADATE (1-)/CN
E9      1      PENTAHYDROXYPHOSPHORANE/CN
E10     1      PENTAHYDROXYVINCALEUKOBLASTINE SULFATE/CN
E11     1      PENTAICOSACENE CONJUGATE ACID/CN
E12     1      PENTAINDIUM POTASSIUM OCTASULFIDE/CN
```

```
=> s e3
L1      1 PENTAHYDROXYCYCLOHEXANONE/CN
```

```
=> d
```

```
L1  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS on STN
RN  13124-19-1  REGISTRY
CN  Inosose (6CI, 7CI, 8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN  Cyclohexanone, 2,3,4,5,6-pentahydroxy-
CN  Pentahydroxycyclohexanone
FS  3D CONCORD
MF  C6 H10 O6
LC  STN Files:  AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
      CHEMINFORMRX, TOXCENTER, USPATFULL
      (*File contains numerically searchable property data)
```



**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

```
27 REFERENCES IN FILE CA (1937 TO DATE)
27 REFERENCES IN FILE CAPLUS (1937 TO DATE)
23 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
```

```
=> file caplus
COST IN U.S. DOLLARS
```

```
SINCE FILE      TOTAL
```

FULL ESTIMATED COST                      ENTRY      SESSION  
6.70                      6.91

FILE 'CAPLUS' ENTERED AT 12:56:23 ON 25 AUG 2003  
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FILE COVERS 1907 - 25 Aug 2003 VOL 139 ISS 9  
FILE LAST UPDATED: 24 Aug 2003 (20030824/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s ll/bpn  
27 L1  
88875 BPN/RL  
L2 1 L1/BPN  
(L1 (L) BPN/RL)

=> d ab bib

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN  
AB A cyclitol ubiquinone oxidoreductase capable of catalyzing the conversion of myo-inositol to myo-inosose is purified from Gluconobacter and characterized. The enzyme is useful in the prepn. of cyclohexanone derivs. for use as therapeutics or synthetic intermediates.  
AN 1997:218481 CAPLUS  
DN 126:208947  
TI A cyclitol ubiquinone oxidoreductase from Gluconobacter oxydans  
IN Wissler, Josef H.; Freivogel, Klaus-Wilhelm; Wiesner, Wolfgang  
PA Fraunhofer-Gesellschaft zur Foerderung der Angewandten Forschung e.V., Germany  
SO Ger. Offen., 16 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19628873	A1	19970123	DE 1996-19628873	19960717
	WO 9704101	A2	19970206	WO 1996-DE1341	19960717
	WO 9704101	A3	19970403		
	W: AL, AM, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KG, KP, KR, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9667318	A1	19970218	AU 1996-67318	19960717
PRAI	DE 1995-19525990		19950717		
	WO 1996-DE1341		19960717		